

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

Firestone Building Products Company, LLC 250 West 96th Street Indianapolis, IN 46260

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Firestone EPDM Single Ply Roof Systems over Gypsum Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews and revises NOA No. 09-0323.07 and consists of pages 1 through 9. The submitted documentation was reviewed by Jorge L. Acebo.

MIAMI-DADE COUNTY
APPROVED

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ROOFING SYSTEM APPROVAL

Category:RoofingSub-Category:Single PlyMaterial:EPDMDeck Type:GypsumMaximum Design Pressure:-257.5 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

		Test	Product
Product	Dimensions	Specifications	Description
Standard RubberGard®	45 & 60 mil	ASTM D4637 Type I	Non-Reinforced EPDM membrane.
RubberGard MAX®	45, 60 & 75 mil	ASTM D4637 Type II	Polyester scrim reinforced EPDM membrane.
RubberGard MAX FR®	45, 60 & 75 mil	ASTM D4637 Type II	Fire Retardant Polyester scrim reinforced EPDM membrane.
RubberGard MAX PT®	45 & 60 mil	ASTM D4637 Type II	Polyester scrim reinforced EPDM membrane with integrated 3" pre-
RubberGard Platinum®	90 mil	ASTM D4637 Type I	applied seam tape. Non-Reinforced EPDM membrane.
RubberGard Platinum LS-FR®	90 mil	ASTM D4637 Type I	Non-Reinforced EPDM membrane.
RubberGard LS-FR®	45 & 60 mil	ASTM D4637 Type I	Fire Retardant Non-Reinforced EPDM membrane.
RubberGard LS-FR PT®	60 mil	ASTM D4637 Type I	Fire Retardant Non-Reinforced EPDM membrane with integrated 3" pre-applied seam tape.
RuberGard EcoWhite®	60 mil	ASTM D4637 Type I	Non-Reinforced, bi-laminate, white on black EPDM membrane.
EPDM FormFlash	various	ASTM D4811	Self-curing EPDM flashing
Reinforced Perimeter Fastening Strip	.045" x 6" x 100'	ASTM D4637	Non-dusted EPDM reinforced strip for non-penetrating base tie-in details
Bonding Adhesive BA-2004 T	5 gallon pail	Proprietary	Neoprene based bonding adhesive
Splice Adhesive SA-1065	1 gallon and 5 gallon pails	Proprietary	Synthetic polymer based adhesive
UltraPly Bonding Adhesive	5 gal. pail	Proprietary	Solvent based adhesive
I.S.O. Twin Pack Insulation Adhesive	1500 ml	Proprietary	A dual component polyurethane adhesive.
AcryliTop	5 gallon pail	Proprietary	Acrylic coating
QuickPrime, QuickPrime Plus, QuickPrime Plus LVOC Primer	5 gallon pail	Proprietary	Primer used to clean and prime EPDM
QuickSeam Flashing	.080" x various widths x 100'	Proprietary	Semi-cured EPDM flashing laminated to cure seam tape



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D.,, J., ,4	D:	Test	Product
Product	Dimensions	Specifications	Description
QuickSeam Batten Cover	.095" x various widths x 100'	Proprietary	Cured EPDM and a seam adhesive laminate
QuickSeam Joint Cover	.070" x 5.75" diameter	Proprietary	FormFlash with two layers of butyl/EPDM adhesive tape laminate
QuickSeam Tape	3" x 100'	Proprietary	Tape for field splicing
QuickSeam R.M.A. Strip	10" x 100'	Proprietary	Strip of RubberGard MAX with QuickSeam Tape for anchoring membrane to substrate
Splice Wash SW-100	5 gallon pail	Proprietary	Cleaning and prep solution for EPDM
Pourable Sealer S-10	.78 gallon, Part A .10 gallon, Part B	Proprietary	Two part polyurethane sealant

APPROVED INSULATIONS:

TABLE 2			
Product Name	Product Description	Manufacturer (With Current NOA)	
ACFoam II	Isocyanurate Insulation	Atlas Roofing Corp.	
ISO 95+ GL	Isocyanurate Insulation	Firestone Building Products Company, LLC	
DensDeck	Silicon treated gypsum	Georgia Pacific Gypsum LLC	
ENRGY 3, ENRGY 3 25 PSI	Isocyanurate Insulation	Johns Manville Corp.	
Multi-Max FA	Isocyanurate Insulation	RMax Operating, LLC	

APPROVED FASTENERS:

TABLE 3				
Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Firestone Polymer Fastener	Insulation and membrane fastener for gypsum decks.	Various	Firestone Building Products Company, LLC
2.	3" Polymer Fastener Insulation Plate	Galvalume AZ55 stress plate	3" square	Firestone Building Products Company, LLC
3.	FM-90 Fasteners	Base ply fastening systems for gypsum decks.		ES Products, Inc.
4.	CR Base Sheet Fastener	Galvanized steel base ply fastener for gypsum deck		OMG, Inc.
5.	CR Base Sheet Disc	Galvalume steel base ply stress plate for gypsum deck	2-3/4" Round	OMG, Inc.



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EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Description	Date
Underwriters Laboratories, Inc.	R9516	UL790	07/17/13
Factory Mutual Research Corp.	1V1A7.AM 1W3A4.AM 1T7A3.AM 1V6A9.AM 2W6A2.AM 2X9A8.AM 3031293 3014692 3028164 3034561	FM 4470 FM 4470 FM 4470 FM 4470 FM 4470 FM 4470 FM 4470 FM 4470 FM 4470	06/25/92 12/01/92 01/18/92 02/27/92 06/25/93 06/14/94 11/29/07 08/05/03 11/02/07 12/08/08
Trinity ERD	3014031 P6860.06.07 F9240.03.09-R2 F9240.11.08-R1 F9240.07.08-R2 F13260.08.09-1	FM 4470 TAS 114 ASTM D4637 ASTM D4637 ASTM D4637 ASTM D4637	07/22/02 06/08/07 07/30/09 07/10/09 07/10/09 08/07/09



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APPROVED ASSEMBLIES

Membrane Type: EPDM, Reinforced, Non-reinforced

Deck Type 6I: Poured Gypsum, Insulated

Deck Description: Poured Gypsum Concrete

System Type A(1): One or more layers of insulation adhered with approved asphalt.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISO 95+ GL	` ,	·
Minimum 1.5" thick	N/A	N/A

Note: All insulation shall be adhered to the deck with OlyBond 500 Adhesive in 3/4" ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Tapered ISO 95+ GL Minimum ½" thick start with a ¼ : 12 taper	N/A	N/A
DensDeck Minimum 1/4" thick	N/A	N/A

Note: Top insulation layer shall be adhered in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Membrane: Fully adhere any Firestone RubberGard® EPDM membrane to the insulation with

Firestone BA 2004 T Bonding Adhesive or UltraPly Bonding Adhesive at a rate of 60 sq. ft./gal. (coverage area is for adhesive application to both mating

surfaces).

Surfacing: (Optional) Firestone Acryli-Top (PC-100) to be applied at 1 gal/100 sq. ft. with

an airless sprayer. If roller applied, two separate coats of 200 sq. ft. per gallon are

required.

Maximum Design

Pressure: -112.5 psf. (See General Limitation #9)



NOA No.: 13-0423.09 Expiration Date: 08/10/18 Approval Date: 07/25/13 Page 5 of 9 **Membrane Type:** EPDM, Reinforced, Non-reinforced

Deck Type 6I: Poured Gypsum, Insulated

Deck Description: Poured Gypsum Concrete

System Type A(2): One or more layers of insulation adhered with approved asphalt.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners	Fastener
·	(Table 3)	Density/ft ²
ISO 95+ GL		•
Minimum 1.5" thick	N/A	N/A

Note: Base Insulation shall be adhered to the deck with Tite-Set Insulation Adhesive applied in 2½-3½" ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Tapered ISO 95+ GL Minimum ½" thick start with a ¼ : 12 taper	N/A	N/A
DensDeck Minimum ¼" thick	N/A	N/A

Note: Top insulation layer shall be adhered in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Membrane: Fully adhere any Firestone RubberGard® EPDM membrane to the insulation with

Firestone BA 2004 T Bonding Adhesive or UltraPly Bonding Adhesive at a rate of 60 sq. ft./gal. (coverage area is for adhesive application to both mating

surfaces).

Surfacing: (Optional) Firestone Acryli-Top (PC-100) to be applied at 1 gal/100 sq. ft. with

an airless sprayer. If roller applied, two separate coats of 200 sq. ft. per gallon are

required.

Maximum Design

Pressure: -165 psf. with DensDeck cover board (See General Limitation #9)

-195 psf. with Tapered ISO 95+ GL or without cover board (See General Limitation #9)



NOA No.: 13-0423.09 Expiration Date: 08/10/18 Approval Date: 07/25/13 Page 6 of 9 **Membrane Type:** EPDM, Reinforced, Non-reinforced

Deck Type 6I: Poured Gypsum, Insulated

Deck Description: Poured Gypsum Concrete

System Type A(3): One or more layers of insulation adhered with approved adhesive.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

Note: All insulation shall be adhered to the deck with Tite-Set Insulation Adhesive applied in 2½-3½" ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer (Optional)

Insulation Fasteners (Table 3)

Density/ft²

DensDeck

Minimum ¼" thick

N/A

N/A

Note: Top insulation layers shall be adhered with Firestone I.S.O. Twin Pack Insulation Adhesive applied in full coverage application. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Firestone Standard RubberGard, LS-FR, RubberGard LS-FR PT, RubberGard

MAX, RubberGard MAX PT, RubberGard MAX FR or RubberGard Platinum EPDM membrane fully adhered to the cover board with Firestone BA-2004 T Bonding Adhesive or UltraPly Bonding Adhesive at a rate of 60 sq. ft./gal. (coverage area is for adhesive application to both mating surfaces for a total of 120 sq. ft./gal). The roof cover side and end laps are sealed with Firestone SA-

1065 Splice Adhesive or QuickSeam Tape.

Maximum Design

Pressure: -257.5 psf. (See General Limitation #9)



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Membrane Type: EPDM, Reinforced, Non-reinforced

Deck Type 6I: Poured Gypsum, Insulated

Deck Description: Poured gypsum concrete

System Type C: All layers of insulation simultaneously attached; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer Insulation Fasteners Fastener (Table 3) Fastener

ISO 95+ GL, ENRGY 3, ENRGY 3 25 PSI, ACFoam II, Multi-Max FA

Minimum 1.4" thick 1 or 3 1:2 ft²

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Barrier: None.

Membrane: Fully adhere any Firestone RubberGard® EPDM membrane to the insulation with

Firestone Bonding Adhesive BA-2004 T or UltraPly Bonding Adhesive at a rate of 45-60 sq. ft./gal. (coverage area is for adhesive application to both mating

surfaces).

Surfacing: (Optional) Firestone Acryli-Top (PC-100) to be applied at 1 gal/100 sq. ft. with

an airless sprayer. If roller applied, two separate coats of 200 sq. ft. per gallon are

required.

Maximum Design

Pressure: -45 psf. (See General Limitation #9)



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GENERAL LIMITATIONS:

- 1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- 2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
- 3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
- 4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.

Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.

- 5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
- 6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
- Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117 and/or RAS 137. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant (When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)
- 8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
- The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). (When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)
- 10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



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